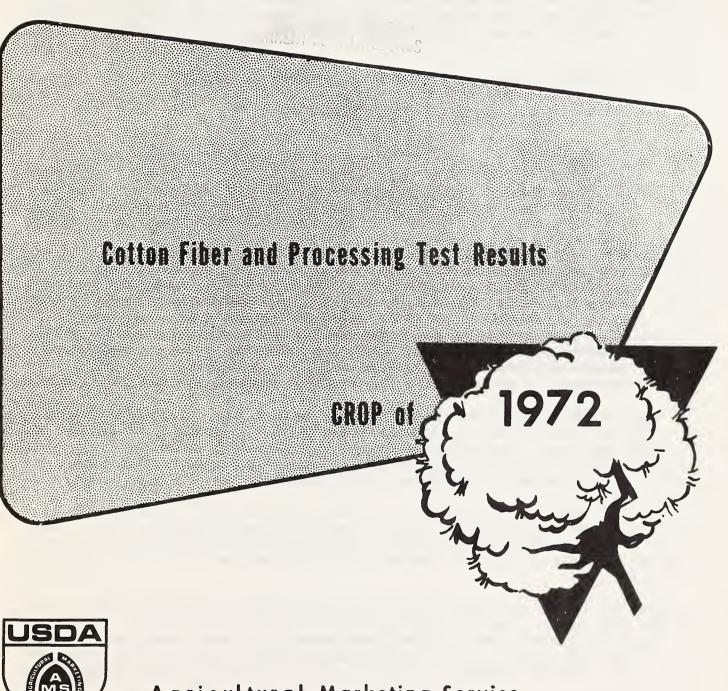
Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



U.S. Darry



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 24,1972

This is the eighth of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1972

Discussion of Test Results

Cotton testing laboratories of the Agricultural Marketing Service, USDA, report samples tested on short staple samples to date show fiber properties to be longer, finer, and stronger than last season. Picker and card waste is lower this year. Yarns spun from these samples show fewer imperfections. Average spinning potential yarn number is higher.

Averages for all medium staple samples tested through November 17, 1972 show stronger fiber than those tested through the same period last season. Yarns spun from these samples show fewer imperfections. Average spinning potential yarn number is higher than last season.

Medium staple samples tested from the Southeast are stronger than last season. Shirley Analyzer nonlint content is lower. Yarns spun from these samples are stronger. Yarn appearance grades were lower as compared to last season. Fewer imperfections were found in samples tested, to date, this season. Average spinning potential yarn number is higher.

Medium staple samples tested from the Southwest show fiber properties to be about the same as last season, except for weaker fiber strength at zero gage. Yarns spun from these samples show more imperfections than last season. Average spinning potential yarn number is higher than a year ago.

Medium staple samples tested from the West to date show fiber properties to be about the same as last year. Yarns spun from these samples are weaker and show fewer imperfections than last year. Average spinning potential yarn number is higher.

Averages for all long staple samples tested, to date, are stronger than through the same period a year ago. Shirley Analyzer nonlint content is lower, as is, picker and card waste. Comber waste is lower than a year ago. Yarns spun from these samples are stronger, with lower appearance grades and fewer imperfections than last season. Average spinning potential yarn number is higher.

Long staple samples tested from the Southeast are shorter and stronger than last season. Shirley Analyzer nonlint content is lower. Picker and card waste is lower than last season. Carded yarns spun from these samples have lower appearance grades and fewer imperfections. Average spinning potential yarn number is higher.

Couth Central long staple samples are shorter and stronger than through the same period last season. Shirley Analyzer nonlint content is lower. Picker and card waste is lower than a year ago. Carded yarns spun from these samples have lower appearance grades and fewer imperfections than last year. Combed yarns show fewer imperfections. Average spinning potential yarn number is higher.

Long staple samples from the West are about the same as last season. Carded yarns spun from these samples show lower appearance grades and more imperfections. Combed yarns also show more imperfections than last season. Average spinning potential yarn number is higher.

Averages of fiber and processing tests from selected gin points in the United States through November 17, 1972

Table 1.--Cotton:

| Fiber test results | - | 50/2.5 ness gage gage nonlint | Pct. Rdg. Mpsi | 3.4 6.3 80 20 3.4 6.3 ht.4 83 21 3.0 5.8 | 08 45 4.4 79 22 3.5 6.4 09 45 4.3 83 23 2.9 6.0 | 11 45 4.5 81 22 2.9 5.8 99 4.5 85 23 2.8 6.0 | 77 45 86 22 3.0 5.6 77 46 4.5 84 22 2.9 6.0 | L1 45 4.3 93 25 2.4 4.9 L1 45 4.4 92 25 2.3 5.2 | 10 45 4.5 83 22 3.0 5.8 39 45 4.4 86 23 2.7 5.8 | .02 2 0.2 2 1 0.5 0.5 |
|--------------------|---|-------------------------------|----------------|--|--|--|--|--|---|--------------------------------|
| | | Crop year tested 2.5% span | No. Inches | Southwest 21 0.96 1972 1972 0.98 | Medium Staple: | South Central 94 1.11 1972 1.09 | Southwest 1971 27 1.07 1972 27 1.07 | West 1971 23 1.11 1972 23 1.11 | U.S. Average 1971 1972 1972 1.09 | Significant dif- ference 2/ |

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality

Averages of fiber and processing tests from selected gin points in the United States through November 17, 1972 \pm (Continued)

Table 1. -- Cotton:

| Processing Test Results Yarn Quality Yarn Quality Strength | m | |
|--|------------------------------|-----------------------|
| Yau SS SS SS Yau | | |
| Yau SS SS SS Yau | α | |
| Appearance Appearance Appearance Appearance I carded combed Yan I carded & Combed Yan | Q | |
| Test Appen | 5 | |
| [전경[mg] · 1명] | 5 | |
| 128 148 148 149 135 135 65 66 | 4(22s) 2(50s) | |
| | 4(22s) | |
| P&C Comber Fet. Pct. Pct. Pct. Pct. Pct. Pct. Pct. 9.6 17.0 8.6 17.1 9.4 15.4 8.6 15.6 8.0 14.9 7.0 15.1 8.1 15.9 8.1 15.9 8.1 17.6 7.3 17.6 7.3 17.6 | 0.5 | |
| Pct. Waste 9.6 8.6 8.6 8.0 7.0 7.0 7.3 | 0.5 | יי+ירפונס |
| Non- Lint Lint H.4.8 4.9 4.0 4.0 3.4 4.0 3.4 4.0 3.4 1.9 | 0.5 | |
| 24 24 24 24 25 25 33 33 32 33 32 33 | - | Of model |
| ## Strength Strength Zero 1/8" gage gage | N | مواسر |
| # Hadg. Mike 19 19 19 19 19 19 19 19 19 19 19 19 19 | 0.2 | 260 |
| The life of the li | N | hor |
| Fib Fib Span U Span U In Fib In Fib In In In In In In In I | 0.02 | limited number of sam |
| 10 No. 12 12 12 13 14 4 4 33 | | |
| Staple group, Area, and Crop year Long Staple: Southeast 1971 1972 South Central 1972 West U. S. Average 1971 1972 U. S. Average 1971 1972 1971 1972 | Significant Difference 2/ | 1/ Baced on a |

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality الالا

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

| | Spin. | tial | No | | 97 | | 44 | 55 |
|--|--------------------------|--|----------|-----------------------|----------------------------|----------------------------|-------------------------------|--------------------------|
| | | | | | 4 | | | |
| | Imprfect'ns | or 22s | 위 | | 17 | | 24 | 23 |
| Yarns | Impx | 8s c 74 t | SI SI | | 25 | | 45 | 34 |
| Jarded | rance | 22sor 8s or 22sor 27 tx 74 tx 27 tx | <u>8</u> | | 120 | | 120 | 120 |
| lts - (| Appearance Index | 8s or 74 tx | SI SI | | 130 | | 130 | 120 |
| st Resu | ion | 22s or 27 tx | Pct | | 0.9 | | 5.9 | 6.1 |
| ing Te | Elongation | 8s or 22s or 74 tx 27 tx | Pct | | 7.1 | | 7.0 | 7.3 |
| Processing Test Results - Carded Yarns | | 8s or 22s or 8s or 22s or 8s or 22s or 7t tx 7t tx 7t tx 7t tx 27 tx | Lbs | | 95 | | 96 | 100 |
| | Strength | 8s or 22s or 74 tx 27 tx | Lbs | | 310 | | 306 | |
| | | | Pct | | 5 | | | 100 PERCENT 5.7 328 |
| | Color Raw Stock P & C | Yel Waste | No | | 97 PER 4 5.8 | | 100 PERCE 4 5.9 | 3 5 |
| | Color Raw Sto | Gra | N N | | 2 | | 2 | т |
| | S.A. | | Pct | | 2.6 | | 3.0 | 0. |
| | Elon- | | Pct | | 7.3 | | | LX 571 6.9 4.0 |
| sults | E 6 | | | | υτ 57 Γ 1 | | 2T LX | (ART LX 22 6 |
| Pest Re | Fiber rength | 1/8" Gage | G/tex | | LANKART 57 21 7 | | LANKART LX-571 21 7.0 | LANKART LX 571 22 6.9 |
| Fiber Test Results | Fiber Strength | Zero | Mpsi | | 83 | | 86 | 79 |
| | Mike | O TOTAL | Rdg | | 4.1 | | 5.1 | 4.5 |
| | tal raph | Unif | Pct | | 94 | | 9 , | 45 |
| | Digital Fibrograph | 2.5% span | 띠 | | 0.92 | | 2.97 | 90• |
| | | Stple | 32s | AREA | | AREA | 32 (| 41 33 1.06 |
| rea, | er | | | Ą | 32 | | | 41 |
| ion A | & Mumb | Grade Name & Code | | | SP | TEXA | SP | |
| Production Area, | & Sample Number | Name | | INEST | ALTUS 1 MID LT SP 32 32 | WESTERN NORTHWEST TEXAS | BURKBURNETT 1 MID LT SP 32 | m≅ |
| | | No | 1 | SOUTHWEST OKLAHOMA | ALTUS 1 MID | WESTERN | BUF 1 MI | RULE 1 SLM |

- 7 -

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| | Spin. | roten- tial | 외 | | | 6.3 | 7.7 | 58 | 61 | 64 64 | 59 | 61 | 11 | 7.3 | 59 | 16 | 63 |
|------------------|-----------------------|-------------------------|-------|---------------|---------|--------------------|------------------------|-----------------------|---------------------|---|-----------------|-----------------------|------------------------|------------------|-----------------------------|-------------------|-----------------------|
| | Imprfect'ns | 50s or 12 tx | 욁 | | | 16 | 13 | 7 | œ | 0.0 | 80 | 10 | œ | 10 | æ | 18 | 2 |
| arns | Imprf | 22s or 27 tx | 8 | | | 17 | 20 | 10 | œ | 12 | 11 | 12 | 10 | 12 | 12 | 23 | a. |
| Carded Yarns | ance | 50s or 12 tx | 외 | | | 7.0 | 80 | 8.0 | 7.0 | 80 80 | 06 | 06 | 80 | 66 | 83 | 7.0 | 0.5 |
| 1 | Appearance Index | 22s or 27 tx | 읾 | | | 100 | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 120 | 0.5 | 110 |
| Test Results | tion | 50s or 12 tx | Pet | | | 5.3 | 4.7 | 3.7 | 4.3 | 4.9 | 4.4 | 4.6 | 4. 9 | 6.4 | 3.7 | 5.1 | 4.7 |
| sing Te | Elongation | 22s or 27 tx | Pet | | | 7.2 | 6.3 | 5.5 | 6.1 | 6.5 | 6.2 | 6.3 | 9.9 | 6.2 | 5.6 | 6.5 | 6.7 |
| Processing | Strength | 50s or | Lbs | | | 36 | 4.5 | 27 | 30 | 33 | 31 | 30 | 38 | 41 | 28 | 40 | 35 |
| - | | 22s or 27 tx | ဒ္ဓု | | | PERCENT 8 101 | RC ENT | RCENT 91 | PERCENT 4 93 | RCENT 96 95 | PERCENT 0 96 | RCENT 90 | PERCENT 5 105 | PERCENT 6 113 | PERCENT 5 93 | PERCENT 0 107 | RCENT 102 |
| | | Waste | Pet | | | 85 PE | 100 PERCENT 6.4 119 | 100 PERCENT 5.1 91 | 93 PE 6.4 | 75 PERCENT 6.1 96 6.6 95 | 92 PE 5.0 | 100 PERCENT 6.6 90 | 99 PE 5.5 | 85 PE 6.6 | 100 PE 6.5 | 75 PE 7.0 | 80 PERCENT 5.8 102 |
| | Color Raw Stock | Yel | 욁 | | | е | 7 | m | 9 | mm | ю | e e | 2 | 7 | m | 2 | М |
| | | | 욁 | | | 7 | | 2 | ю | ω4 | E) | ю | ю | 4 | m | т | ю |
| | S.A. | Non- Lint | Pet | | | 1.7 | 2.5 | 1.7 | 3 2.1 | AF 2.7 2.4 | 3.1 | 3 4.4 | 2.0 | 3.5 | 3.2 | 3.7 | 2.5 |
| lts | Elon- | gat'n 1/8" | Pct | | | INE 16 8.6 | 417 | 201 | 1LLE 213 | SMOOTH LEAF 7.9 2 7.7 2 | KING 11 | ILLE 21: | INE 16 8.5 | 201 | KING 11 | 417 | INE 16 7.9 |
| Test Results | Fiber | 1/8" Gage | G/tex | | . 1 | DELTAPINE 22 8. | COKER 4 | COKER 22 | STONEVILLE 20 6. | REX SMI 20 20 | DIXIE | STONEVILLE 21 7.1 | DELTAPINE 16 22 8.5 | COKER 24 | DIXIE | COKER 23 | DELTAPINE 22 7 |
| Fiber T | Fiber Strength | Zero | Mpsi | • | | 19 | 68 : | 87 | 80 | 78 | 46 | 75 | 80 | 88 | 68 | 79 | 84 |
| | | Mike | Rdg | | | 4.3 | 3.8 | 6.4 | 4.1 | 4.2 | 4.2 | . 4.5 | 4.1 | 4.5 | 4 8 | 4.3 | 4.5 |
| i | Digital Fibrograph | Unif. | Pet | | | 4 | : G | 4.7 | 44 | 4 4 4 3 | 4 | 45 | 4 | 46 | 94 | 43 | 45 |
| | Digital Fibrogre | | 티 | | | 1.10 | 1.14 | 1.02 | 1.05 | 1.10 1.10 | 1.05 | 1.05 | 1.10 | 1.12 | 1.02 | 1.16 | 1.06 |
| | | Stple | 32s | 4 | ۲ ا | 34 | 35 | 33 | 33 | 33 34 | 33 | 33 | 34 | 35 | 33 | 34 | 35 |
| Area, | lber | de | | | | 51 | 55 1 | , 14 | 21: | LE 51 42 | 41 | 21 | 19 | 51 | 51 | 51 | 41 |
| Production Area, | & Sample Number | No Grade Name & Code | | COLLTHEASTEDN | ALABAMA | CHEROKEE 2 LM | DEATSVILLE 3 LM | GERALDINE 1 SLM | JEFF 3 LM | MERIDIANVILLE 2 LM 5 3 SLM LT SP 4, | TONEY 2 SLM | TUSCUMBIA 2 LM | TUSKEGEE 3 LM | TYLER 3 LM | GEORGIA BOSTWICK 2 LM | PINEHURST 3 LM | SHELLMAN 3 SLM |

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| | Spin. | Poten- tial | & | 75 | 69 68 | 76 | | 55 | 61 | 63 | 5 | 56 | 55 | 09 | 63 |
|---------------------------------|-----------------------|-------------------------|------------------------------|---|-----------------------------------|--------------|--------------------------------|---------------------|------------------------|------------------------|-----------------------|-----------------------|--------------------|-------------------|------------------------|
| | ' | H Y | 8 | m 5 | w r- | σ. | | | | | r. | | | | |
| ro | Imprfect'ns | or 50s c tx 12 t | 1 | | | | | 17 | 12 | 14 | 12 | 18 | 16 | 13 | 10 |
| Yarns | Imj | 22s 27 | <u>N</u> | 16 12 | 12 | 13 | | 22 | 17 | 18 | 15 | 27 | 22 | 18 | 14 |
| Carded | Appearance Index | : 50s or 12 tx | <u>N</u> | 0.6 0.6 | 83 | 80 | | 06 | 100 | 06 | 100 | 06 | 80 | 06 | 100 |
| ults - | Appe: | 22s or 27 tx | 8 | 110 100 | 110 | 100 | | 110 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Test Results | Elongation | 50s or | Pct | . 4 . 4 . 6 | 5.5 | 5.3 | | 3.7 | 4.4 | 4.4 | 3.5 | 4. | 3.6 | 3.6 | 4.7 |
| Processing I | Elone | 22s or 27 tx | Pet | 6.7 | 6 6 8 8 | 1.9 | | 5.4 | 0.9 | 5.9 | 5.5 | 6.1 | 5.0 | 5.1 | 6.3 |
| Proce | Strength | r 50s or 12 tx | | 43 41 | 39 | 8 4 | | 32 | 41 | 37 | 30 | 35 | 31 | 33 | 39 |
| | | 22s or 27 tx | Ips | PERCENT .2 116 .2 114 | CENT 105 108 | PERCENT | | PERCENT 6 97 | CENT 109 | CENT 100 | CENT 93 | CENT 97 | PERCENT 0 89 | PERCENT 9 94 | CENT 106 |
| | P&C | Waste | Pet | 100 PE | .00 PERCENT 6.6 105 6.3 108 | 100 PEF | | 98 PER 6.6 | 90 PER 5.6 | 100 PERCENT 7.1 100 | 100 PERCENT 5.8 93 | 100 PERCENT 6.6 97 | 190 PER 7.0 | 80 PER 7.9 | 100 PERCENT 6.4 106 |
| | Color Raw Stock | Yel | 읽 | 2 2 | 2 3 | 3 | | 2 | 2 | 2 | 3 | 2 | 2 | ю | 2 |
| , | | | 읾 | e 2 | 7 7 | m | | 4 | 2 | 2 | 3 | 4 | 60 | 2 | 4 |
| | | Non- Lint | Pct | 5.5 | 3.7 | 3.5 | | 3.9 | 2.2 | 3 4.3 | 3 2.5 | 3 3.8 | 3.0 | 3.7 | 3.3 |
| lts | Elon- | gat'n 1/8" | Pet | 201 7.0 6.6 | 201 | 417 | | LLE 213 5.8 | NE 16 6.9 | LLE 213 6.5 | LLE 213 5.7 | LLE 213 6.3 | 5.4 | 6.2 | NE 16 |
| est Results | ber | 1/8" Gage | G/tex | COKER 2 23 26 | COKER 2 23 22 | COKER 4 | | STONEVILLE 22 5. | DELTAPINE 16 24 6.9 | STONEVILLE 23 6. | STONEVILLE 22 5.7 | STONEVILLE 23 6.3 | BRYCOT 21 | REX SL-66 22 6 | DELTAPINE 16 23 7.0 |
| Fiber Te | Fil | Zero Gage | Mpsi | 90 88 | 81 80 | 98 | | 9, | 88 | 80 | 84 | 84 | 98 | 82 | 85 |
| | | Mike | Rdg | 4.2 | 3.8 | 3.8 | | 4.1 | 4. 8 | 4.4 | 4.7 | 4.0 | 4.3 | 4.4 | 3.8 |
| | Digital Fibrograph | Unif. | Pet | 4 4 8 8 | 4 4 75 75 | 46 | | 44 | 45 | 44 | 45 | 7, | 46 | 43 | 77 |
| | Digital Fibrogra | | In In | 1.11 | 1.07 | 1.13 | | 1.07 | 1,13 | 1.09 | 1.36 | 1.07 | 1.10 | 1.06 | 1.10 |
| | | Stple | 32s Conti | 35 | 35 | 35 | AREA | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| Area, | ber | Je | EA(| 4 LS 51 51 | 41 51 | 51 | , | 51 | 41 | 51 | 41 | 51 | 51 | 51 | 51 |
| Production Area, Classification | & Sample Number | No Grade Name & Code | SOUTHEASTERN AREA(Continued) | SOUTH CAROLINA CALHOUN FALLS 1 LM 5 | ST.MATTHEWS 3 SLM 4 LM | YORK 2 LM | - SOUTH CENTRAL ARKANSAS | BAY 3 LM | GRADY 2 SLM | HEL ENA 2 LM | HUGHES 3 SLM | LEACHVILLE 3 LM | LEACHVILLE 3 LM | PARKIN 2 LM | WILSON 3 LM |
| | | | | | | | , | | | | | | | | |

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| 1 | ۱ : | 1 _ | 1 | | | | | | | | | | | | | | |
|------------------|-----------------------|-----------------|-------------------------------|--------------------------------|-----------------------------|----------------------|--------------------|------------------------|------------------------|--------------------------------|-----------------------|-----------------------|-----------------------|---------------------|-------------------|------------------------|------------------------|
| | Spin. | Poten- tial | 8 | 57 | 63 | 57 | 09 | 63 | 09 | 72 | 6.8 | 62 | 11 | 69 | 62 | 7.1 | o 9 |
| | Imprfect'ns | 50s or | 8 | 10 | 17 | 15 | 12 | 12 | 13 | 7 | 7 | 6 | 7 | 12 | 12 | α | 1.1 |
| arns | Impri | 22s or 27 tx | 읽 | 14 | 22 | 19 | 17 | 14 | 19 | 6 | ~ | 14 | 6 | 14 | 15 | 12 | 2.1 |
| Carded Yarns | ance | Os or | | 06 | 100 | 100 | 06 | 100 | 06 | 90 | 06 | 06 | 06 | 80 | 7.0 | 6 | 7.3 |
| 1 | Appearance Index | 22s or | 8 | 120 | 120 | 120 | 120 | 130 | 120 | 110 | 110 | 100 | 110 | 130 | 100 | 100 | 06 |
| Test Results | tion | 50s or 12 tx |] | 3.6 | 4.5 | 4.0 | 4.3 | 4. | 4.4 | 5.2 | 8.4 | 4.6 | 4.9 | 4.1 | 5.1 | 4 00 | 0.4 |
| | Elongation | 22s or 27 tx | — | 5.5 | 0.9 | 5.2 | 5.9 | 0.9 | 5.9 | 5.9 | 4.9 | 6.3 | 6.5 | 0.0 | 6.9 | 6.5 | 5.6 |
| Processing | lgth | 50s or | sq. | 32 | 4, | 34 | 34 | 37 | 41 | 39 | 37 | 33 | 38 | 32 | 38 | 0,4 | 3.9 |
| | Strength | 22s or 27 tx | Ips | ENT 92 | ENT | 1NE 99 | 9.5 | ENT 102 | ENT 107 | ENT | 104 104 | 1N3 | ENT 107 | ENT | ENT 110 | ENT | ENT |
| | P & C | Waste 2 | Pct | 0 PERCENT 5.8 92 | PERC | 5 PERCENT | PERCENT | 0 PERCENT 5.0 102 | 100 PERCENT 5.5 107 | PERC 2 | 90 PERCENT 7.2 104 | 100 PERCENT 7.2 99 | 35 PERCENT 5.5 107 | PERC 3 | PERC 1 | 100 PERCENT 7.0 110 | 100 PERCENT 8.1 110 |
| - | | | | 90 | 100 | 75 | 95 | 100 | | 100 | 90 | 100 | 8 0 | 100 | 100 | 100 | 100 |
| | Color Raw Stock | a Yel | 읾 | 2 | 2 | ю | W | 2 | 7 | 2 | 2 | ю | 2 | 2 | ю | 2 | 2 |
| | | | 외 | 7 | 2 | 2 | 3 | 2 | 2 | 2 | m | 2 | 7 | 2 | - | 7 | en. |
| | S.A. | Non- Lint | Pct | 3 2.0 | 3.8 | 3 2.6 | 2.8 | 2.0 | 3.1 | 4.6 | 3.2 | 3.5 | 3 | 3 2.5 | 3.0 | 2.4 | I 3.4 |
| 62 | Elon- | gat'n 1/8" | Pet | LE 213 | LE 213 6.7 | LE 213 6.0 | E 45A | IE 16 | ie 16 7.0 | E 16 8.3 | LE 21 7.5 | LE 21 6.6 | LE 21 | LE 21 6.9 | IE 16 | IE 16 | KING II |
| Test Results | er rth | 1/8" Gage | G/tex | STONEVILLE 23 5. | STONE VILLE | STONEVILLE 22 6.0 | DELTAPINE 22 6. | DELTAPINE 16 22 7.0 | DELTAPINE 23 7. | DELTAPINE 24 8 | STONEVILLE 22 7. | STONEVILLE 23 6. | STONEVILLE 23 7. | STONEVILLE 22 6. | DELTAPINE 23 7. | DELTAPINE 25 | DIXIE KI 24 |
| Fiber Tea | Fiber | Zero | Mpsi | 87 | 85 | 87 | 83 | 98 | 85 | 0 48 | 80 | 83 | 83 S | . 98 | 83. | 83 | 96 |
| Fil | | I | 1 | | | .0 | 01 | • | | | | | | | | .0 | |
| | | Mike | Rdg | 4.9 | 4.4 | 4.6 | 4.2 | 4.0 | 4.4 | 4.8 | 4.7 | 5.0 | 4.3 | 4.6 | 3.9 | 4.6 | 4.3 |
| | Digital Fibrograph | Unif. | Pct | 44 | 47 | 4.5 | 4 5 | 44 | 46 | 9 | 46 | 9 + | 45 | 45 | 45 | 4 | 45 |
| | Digi | | Inued) | 1.10 | 1.10 | 1.06 | 1.07 | 1.09 | 1.11 | 1.08 | 1.12 | 1.10 | 1.10 | 1.04 | 1.06 | 1.12 | 1.06 |
| | | Stple | 32s Cont | 35 | 34 | 35 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 34 | 35 | 34 | 34 |
| Area, | ber | П | REA | 41 | ENCE 41 | 51 | 41 | 41 | 41 | 51 | 51 | 51 | 41 | 41 | 41 | 41 | 51 |
| Production Area, | & Sample Number | No Grade | SOUTH CENTRAL AREA(Continued) | LOUSIANA LAFAYETTE 2 SLM | LAKE PROVIDENCE 2 SLM 41 | NEWELLTON 2 LM | OPELOUSAS 2 SLM | SHREVEPORT 2 SLM | WATERPROOF 2 SLM | MISSISSIPPI BELZONI 3 LM | BRUCE 3 LM | CLARKSDALE 2 LM | EDWARDS 3 SLM | GREENWOOD 3 SLM | HERNANDO 2 SLM | INCIANOLA 3 SLM | INDIANOLA 9 LM |

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| 1 | | | 1 | | | | | - 10 | • | | | | | | |
|------------------------------------|-----------------------|----------------------|---|------------------------|-----------------------|------------------------|------------------------|---------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------------|------------------------|---|
| | , c | Poten- | NO. | 63 | 9 | 69 | 75 | 89 | 74 | 61 | 19 | 69 | 61 | 63 | 99 |
| | Imprfect'ns | or 50s or | 12 tx No | œ | 10 | ٥ | . 6 | 11 | 12 | 13 | 10 | 6 | 13 | 14 | 15 |
| Yarns | Impri | 22s or | No la | 6 | 10 | 10 | σ | 12 | 13 | 13 | 13 | 11 | 14 | 15 | 15 |
| Carded) | | 50s or | No tx | 06 | 83 | 9.0 | 80 | 80 | 80 | 7.0 | 70 | 80 | 7.0 | 7.0 | 2 |
| 1 | bea | s or | No No | 110 | 100 | 120 | 100 | 100 | 100 | 06 | 100 | 110 | 06 | 100 | 06 |
| Test Results | ion | 占 | Pct TX | 4.3 | 4.2 | 4.8 | 5.5 | 4.7 | 5.5 | 3.8 | 4.6 | 5.4 | 8 • • | 4.4 | 5.3 |
| | | ٠. | Pet I | 0.9 | 5 . 8 | 6.3 | 7.1 | 6.5 | 6.9 | 5.6 | 6.3 | 7.2 | 9.9 | , 9.9 | 7.1 5 |
| Processing | \vdash | _ Q (| - | | | | | | | | | _ | 9 | 9 | , , |
| Pro | Strength | - | ron sqr | 34 | 30 | 34 | 42 | 35 | 40 | 30 | 36 | 37 | 33 | 33 | 35 |
| | Str | 22s or | sq] | CENT 103 | CENT 94 | CENT 99 | CENT 113 | PERCENT 3 101 | CENT | CENT 96 | CENT 101 | CENT 106 | CENT 94 | CENT 100 | LO3 |
| | ر مر م | Waste | Pet | 100 PERCENT 6.7 103 | 100 PERCENT 7.4 94 | 98 PERCENT 5.6 99 | 100 PERCENT 5.9 113 | 95 PER 7.3 | 100 PERCENT 6.4 111 | 100 PERCENT 7.5 96 | 100 PERCENT 6.1 101 | 95 PERCENT 5.3 106 | 100 PERCENT 6.0 94 | 100 PERCENT 6.1 100 | 75 PERCENT 5.6 103 |
| | or | Yel | 읽 | 3 1 | 3 1 | m | 2 | m | 2 1(| 2 | 2 | ٧, | 3 1 | 3 1(| 3 7 |
| | Color Raw Stock | Gra | <u> </u> | 2 | 2 | 2 | 1 | 2 | 1 | 6 | 2 | 1 | m | ED. | |
| | S.A. | Non- Lint (| 1 | 60 | 2 | r. | 2 | 7 | 9 | 6• | 2 | rv | m | 5 | 7 |
| | - | | Pct | 213 | 13 3.2 | 2.5 | 2.2 | 213 | 2.6 | C | 213 | 2.5 | 213 | 2.5 | 1.8 |
| 72 | Elon- | gat'n 1/8" | Pct | | LE 21 | DELTAPINE 16 22 8.7 | DELTAPINE 16 23 8.0 | | DELTAPINE 16 24 8.0 | LE 7A 5.7 | | DELTAPINE 16 22 8.5 | | _ 6 | 16 |
| sult | | | ăl | EVIL | EVIL | APIN | APIN | EVIL | APIN | EVIL | EVIL | APIN | EVIL | Σ | PINE |
| Test Results | Fiber | 1/8" Gage | - | STONEVILLE 24 6. | STONEVILLE 22 7.0 | DELT 22 | DELT 23 | STONEVILLE 23 7. | DELT 24 | STONEVILLE 21 5. | STONEVILLE 23 7.0 | DELT 22 | STONEVILLE 20 8.0 | AUBURN 22 | DELTAPINE 16 22 8.7 |
| Fiber T | Fi | Zero Gage | Mpsi | 85 | 82 | 8 | 87 | 81 | 82 | 16 | 85 | 76 | 74 | 81 | 82 |
| | | Mike | Mar. | 4.8 | 6.4 | 4.5 | 4.1 | 4.2 | 4.3 | 4.1 | 4.4 | 0.4 | 4.1 | 3.6 | · • • • • • • • • • • • • • • • • • • • |
| | ųd. | Unif. | Pet | † 1 | 45 | † | 4 4 | 4 | 4.4 | 45 | 4, | 45 | 45 | 43 | 4 |
| | Digital Fibrograph | | | | | | | | | | | | | | |
| | Die | | In inued | 1.09 | 1.09 | 1.10 | 1.12 | 1.09 | 1.13 | 1.07 | 1.10 | 1.10 | 1.05 | 1.06 | 1.08 |
| | | Stple | 32s (Contued) | 34 | 34 | 34 | 35 | 34 | 35 | 34 | 35 | 35 | 34 | 34 | 34 |
| Area, | ber | le | REA ontin | 41 | 51 | 4.1 | N 41 | 51 | 41 | 51 | 41 | → 141 | 41 | 51 | 41 |
| Production Area, Classification | & Sample Number | Grade Name & Code | 2AL A | | | | BURN | | | - | | MATER VALLEY | <u></u> | | ; |
| oduci | ample | Gr | CENTI SIPPI | UNA | | NOT | PANTHER | 210 | E. | TR IBBETT LM | ICA | .> × | URI L CITY | ATH | Ŧ |
| LA S | Ω | No | 32s In SOUTH CENTRAL AREA(Continued) MISSISSIPFI(Continued) | LELAND 3 SLM | LYCN 2 LM | MORTON 2 SLM | PANT! | SARDIS 2 LM | SCOTT 2 SLM | TRIE 3 LM | TUNICA 3 SEM | MATE 3 SLP | MISSOURI BELL C 1 SLM | SENATH 3 LM | SENATH 3 SLM |
| | | | | | | | | | | | | | | | |

Table 3 -- Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| | Spin. | Poten- tial | N N | 9 | ? | 9 | | 65 | | 63 | 75 | 84 | 7.7 | 61 | 7.8 | 61 |
|------------------------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------|----------------------|-----------------------------|----------------------------|-------------------------|--------------------|------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | | ty of | 01 | a | 7 | 61 | | 5 | | 10 | 9 | _ | 11 | 14 | 6 | 4 |
| ω | Imprfect'ns | ort | 1 | 2 | 9 | 2 1 | | 8 1 | | 14 1 | 10 | 10 | | | | 1 |
| Carded Yarns | | or 22s | S | (1 | | p-rel | | 1 | | | | | 0 14 | 71 0 | 11 | 02 (|
| Cardec | Appearance Index | 50s or | 욄 | 7.3 | 100 | e 9 | | 90 | | 1 00 | 1 00 | 100 | 1 00 | 1 00 | 1 00 | 06 |
| 1 1 | Appeara | 22s or 27 tx | SI SI | 100 | 113 | 100 | | 120 | | 120 | 130 | 120 | 130 | 120 | 120 | 120 |
| est Resu | ation | 50s or | Pet | 5.0 | 4.2 | 4.4 | | 4.5 | | 4.6 | 4.4 | 4.6 | 4.6 | 4. | 4. | 4.1 |
| Processing Test Results | Elongation | 22s or 27 tx | | 6.5 | 6.1 | 6 . 3 | | 5.9 | | 0.9 | 5.7 | 5.7 | 5.8 | 5.5 | 5.1 | ر. د |
| Proce | Strength | 50s or | Ipss | 35 | 31 | 31 | | 37 | | 40 | 50 | 51 | 53 | 64 | 51 | 43 |
| | Stre | 22s or 50s or 27 tx 12 tx | I.bs | SENT 99 | 1N1 | Sent 94 | | 99 | | PERCENT 3 107 | JENT 124 | 126 | 131 | 122 | 126 | 114 |
| | P & C | | Pct | 85 PERCENT 6.6 99 | 85 PERCENT 5.9 94 | 70 PERCENT 6.5 94 | | 95 PERCENT 6.5 99 | | 100 PER(5.3 | 100 PERCENT 5.6 124 | 100 PERCENT 5.2 126 | 100 PERCENT 5.0 131 | 100 PERCENT 5.9 122 | 100 PERCENT 4.9 126 | 100 PERCENT 7.5 114 |
| | Color Raw Stock | | No | w | m | 4 | | w. | | 2 | 3 | 2 10 | 3 1 | 2 10 | 3 10 | 3 10 |
| ÷ | Co | | 일 | м | 8 | М | | m | | 2 | 2 | 7 | - | 2 | 7 | - |
| | S.A. | Non- Lint | Pet | 3.1 | 2.3 | 2.3 | | 3.2 | | 5.9 | 3,1 | 3.0 | 2.0 | 2.3 | 1.9 | 2 • 2 |
| v2 | Elon- | gat'n 1/8" | Pet | .LE 213 | KING 11 | 7.4 | | 4E 16 7.1 | | VE 16 6.1 | 5.7 5.7 | SJ-1 5.9 | SJ-1 5.3 | SJ-1 5.1 | 5J-1 5.4 | SJ-1 4.9 |
| Test Results | r th | 1/8" Gage | G/tex | STONEVILLE 21 7. | DIXIE K 20 | HANCOCK 20 | | DELTAPINE 16 22 7.1 | | DELTAPINE 16 24 6.1 | ACALA S | ACALA S | ACALA S | ACALA S | ACALA S. | ACALA S. |
| 1 1 | Fiber Strength | Zero Gage | Mpsi | 8 62 | J 61 | 82 | | 78 | | 98 | 1 16 | 7 76 | 1 16 | 86 | 96 | 101 |
| Fiber | | Mike Z | Rdg | 4 • 3 | 4.3 | 4.4 | | 4.4 | | 5.1 | 4.3 | 4.6 | 4.4 | 4.1 | 4.4 | 4.2 |
| | qe | | Pct | 4.5 | 4 9 4 | 43 4 | | 43 4 | | 7 7 | 7 97 | 4 6 4 | 4 9 4 | 7 44 | 7 94 | 45 4 |
| | Digital Fibrograph | n Ur | | | | | | | | | | | | | | |
| | Di | | In timued, | 1.05 | 1.04 | 1.03 | _ | 1.14 | a | 1.13 | 1.13 | 1.17 | 1.11 | 1.11 | 1.11 | 1.08 |
| 3 | | Stple | 32s -(Cont | 34 | 34 | 34 | AREA | 35 | AREA | 35 | 36 | 36 | 36 | 36 | 36 | 35 |
| Area | umber | ode | AREA- | 41 | 41 | LE 42 | 15 | 45 | | 41 | LD 41 | 41 | 31 | 41 | 31 | 31 |
| Production Area, Classification | & Sample Number | No Grade Name & Code | 32s In SOUTH CENTRAL AREA(Continued) | TENNESSEE BOLIVAR 2 SLM | CLARKSBURG 1 SLM | FAYETTEVILLE 2 SLM LT SP | SOUTHWEST CENTRAL TEXAS | NAVASOTA 3 SLM LT SP | WESTERN ARIZONA | BUCKEYE 1 SLM | CALIFORNIA BAKERSFIELD 2 SLM | BAKERSFIEL 2 SLM | CHOWCHILLA 1 MID | CORCORAN 2 SLM | DOS PALOS 1 MID | EARLIMART 1 MID |

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| | in. | en- al | | | | | | | |
|--|-------------------------------|---|--------|--|-----------------------|-----------------------|-----------------------|------------------------|---------------------|
| | | Foten- tial | 읽 | | 72 | 62 | 80 | 70 | 78 |
| | Imprfect'ns | r 50s or | 읾 | | 15 | 15 | 11 | 10 | 10 |
| arns | Impr | 22s o: 27 ts | 읾 | | 15 | 20 | 15 | :: | 14 |
| Processing Test Results - Carded Yarns | rance | 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx | 잉 | | 06 | 06 | 100 | 100 | 100 |
| ults - (| Appearance Index | 22s or 27 tx | 읾 | | 120 | 120 | 120 | 120 | 120 |
| est Res | Elongation | 50s or 12 tx | Pct | | 4.2 | 3.8 | 4.6 | 4.3 | 4.7 |
| ssing T | Elong | 22s or 27 tx | Pct | | 5.2 | 5.0 | 5.6 | 5.5 | 6.1 |
| Proce | Strength | 50s oj 12 tx | Lbs | | 64 | 43 | 20 | 64 | 50 |
| | | | Tps | | IZ5 | CENT 114 | CENT 128 | CENT 126 | RCENT 124 |
| | Color Raw Stock P & C | Waste | Pet | | 98 PERCENT 5.0 125 | 99 PERCENT 5.2 114 | 95 PERCENT 4.1 128 | 100 PERCENT 5.1 126 | 100 PERCENT |
| | Color w Stock | Gra Yel | N N | | ю | ю | ю | 3 | 3 |
| | CC Raw | | 임 | | - | 1 | - | - | - |
| | | Non- Lint | Pct | | 1.9 | 2.7 | 1.9 | 2.5 | 2.4 |
| ts | Elon- | gat'n 1/8" | Pct | | 5.1 | 5.6 | -42 | 5.7 | 5.5 |
| Test Results | er gth | 1/8" Gage | G/tex | | ACALA SJ-1 26 5. | ACALA SJ-1 25 5. | ACALA 4-42 | ACALA 4-42 26 5. | ACALA SJ-1 26 5. |
| Fiber Te | Fiber Strength | Zero Gage | Mpsi | | 46 | 06 | 96 | 16 | 96 |
| Ε. | | Mike | Rdg | | 4.3 | 4.5 | 4.4 | 4.5 | 4.2 |
| | Di gital Fibrograph | Unif. | Pet | | 45 | 45 | 46 | 47 | 47 |
| | Digital Fibrogra | Stple 2.5% span | ц | | 36 1.12 | 35 1.09 | 35 1.10 | 1.08 | 36 1.13 |
| | | Stple | 32s | ued) | 36 | 35 | 35 | 35 | 36 |
| Area, | ber | | | ontin | 31 | 31 | 31 | 31 | 41 |
| tion | & .e Num | Grade Name & Code | | -(Con | | | | | |
| Production Area, Classification | & Sample Number | No Name | | WESTERN AREA(Continued) CALIFORNIA(Continued) | HANFORD 1 MID | HURON 1 MID | VISALIA 1 MID | WASCO 1 MID | WASCO 2 SLM |
| | | | | | | | | | |

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1972

| | Spin. | tial | 8 | | 76 | 99 | 75 | 78 | 7.7 | | 70 | | 88 |
|-------------------------|-----------------------|-------------------------|-------|--------------|------------------------------------|------------------------------------|-------------------------------------|---|----------------|---------------|------------------------------------|---------|------------------------------------|
| | t'ns | or 50s or x 12 tx | 왕 | | 70 CV | 10 | 12 6 | 14 | 13 6 | 5 | 11 % | | 11 ° |
| arns | Imprfect'ns | 22s or 27 tx | 왕 | | 19 | 12 5 | 23 | 20 | 17 | • | 17 6 | | 14 6 |
| - Carded Yarns | ance | 50s or 12 tx | 8 | | 100 | 90 | 90 | 70 | 0 2 0 | 3 | 70 | | 80 90 |
| 1ts - C | Appearance Index | 22s or 27 tx | No | | 100 | 100 | 100 | 06 | 90 | 3 | 100 | | 100 |
| Processing Test Results | tion | 50s or 12 tx | Pet | | 5.5 | 4.7 | 5.4 | 6.0 | 0 0 v | • | 5. 50 6. 50 | | 5.98 |
| sing Te | Elongation | 22s or 27 tx | Pet | | 6.6 | 6.3 | 6.8 | 8 9 | 0.00 | | 6.5 | | 7.0 |
| Proces | gth | 50s or 12 tx | Los | | 4 4 8 8 | 37 | 50 | £ 0 | 4 4 4 6 6 0 | } | 42 51 | | 51 55 |
| | Strength | 22s or 27 tx | sq1 | | CENT 116 130 | CENT 106 121 | PERCENT 6 114 5 134 | 112 | 115 | | CENT 118 135 | | CENT 12 131 146 |
| | P & C | Comber Waste | Pet | | 100 PERCENT 7.5 116 15.0 130 | 100 PERCENT 8.6 106 15.4 121 | 100 PER 7.6 13.5 | 100 PERCENT 9.2 112 | 9.3 | | 100 PERCENT 9.5 118 15.5 135 | | 100 PERCENT 7.7 131 13.3 146 |
| | Color Raw Stock | Yel | 읽 | | # # | m*, | * | . 4 | · Μ. | • | 2 *- | | * * |
| | Color Raw Sto | Gra | 읽 | | . ~ | m | ~ | 7 | М | | 7 | | . |
| | S.A. | Lint | Pct | • | 3.1 | 3,8 | 2.7 | 4.2 | 4.1 | | 4 8 | | 3.0 |
| ts | Elon- | 1/8" | Pet | | 310 7.3 | 310 | 310 | 310 7.5 | 1.4 | | 310 | | 1517-v 6.6 |
| Test Results | Fiber Strength | 1/8" Gage | G/tex | | COKER 3 | COKER 3 | , COKER 3 23 | COKER 3 | 25 | | COKER 3 | | ACALA 1 25 |
| Fiber To | Fi | Zero | Mpsi | | 06 | 82 | 81 | 85 | 83 | | 89 | | 84 |
| [E4 | | Mike | Rdg | | 4.5 | 4.7 | 80 | 0.4 | 4.0 | | 0.4 | | 9 • 4 |
| | ri da | Unif. | Pet | | € | ‡ | ή , | 4 1 | 43 | | 4 | | 45 |
| | Digital Fibrograph | 2.5% span | 티 | | 1.14 | 1.14 | 1.13 | 91.1 | 1.17 | | 1.17 | | 1.17 |
| | | Stple | 32s | ΕA | 35 | 35 | 35 1 | 35] | 35 1 | EA | 37 1 | AREA | 37 |
| ea, | r | T | (1,7] | AREA | . 14 | 45 | 14 | - | 51 | AREA | 21 | AR | 41 |
| Production Area, | & Sample Number | No Grade Name & Code | | SOUTHEASTERN | GEORGIA DANIELSVIÉLE 1 SLM | MADISON 2 SLM LT SP 4 | NORTH CAROLINA FALLSTON 1 SLM | SOUTH CAROLINA RIDGE SPRINGS 2 LM 5 | 3 LM | SOUTH CENTRAL | MISSISSIPPI MORGAN CITY 3 LM | WESTERN | NEW MEXICO HATCH 1 SLM |

 $\underline{1}/$ 100 percent selected for tests, less than 100 percent in the area \star Comber Waste and Combed Yarn Data

